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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: McMackin et al.
App. No.: 10/714,088 GPAU: 1762
Filing Date: 11/14/2003 Examiner: Marianne Padgett
Dkt. No.: P69-11-03 Conf. No.: 9507
For: DISPENSE GEOMETRY TO ACHIEVE HIGH-SPEED FILLING AND
THROUGHPUT

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:
before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the

Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

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3-21-05

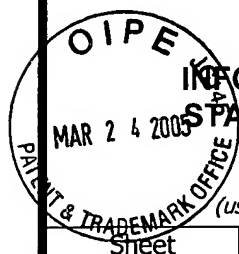
Respectfully Submitted,



Kenneth C. Brooks,
Reg. No. 38,393
Legal Department
Molecular Imprints, Inc.
P.O. Box 81536
Austin, TX 78758-1536
(512) 339-7760
(512) 491-8918 (fax)

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Sheet

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of

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APPLICATION NUMBER	10/714,088
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Examiner Name	Padgett, Marianne
Attorney Docket Number	P69-11-03

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

	C1	5,772,905		Chou	6/30/1998	
	C2	6,309,580	B1	Chou	10/30/2001	
	C3	6,391,217	B2	Schaffer et al.	5/21/2002	
	C4	6,696,220	B2	Bailey et al.	2/24/2004	
	C5	10/760,821		Sreenivasan et al.	1/20/2004	
	C6	10/788,700		Sreenivasan et al.	2/27/2004	
	C7	2002/0177319	A1	Chou	11/28/2002	
	C8	6,713,238	B1	Chou et al.	3/30/2004	
	C9	2004/0065976	A1	Sreenivasan et al.	4/8/2004	
	C10	6,646,662	B1	Nebashi et al.	11/11/2003	
	C11	6,776,094	B1	Whitesides et al.	8/17/2004	
	C12	6,518,189	B1	Chou	2/11/2003	
	C13	2002/0132482	A1	Chou	9/19/2002	
	C14	2002/0167117	A1	Chou	11/14/2002	
	C15	6,482,742	B1	Chou	11/19/2002	
	C16	2003/0080471	A1	Chou	5/1/2003	
	C17	2004/0036201	A1	Chou et al.	2/26/2004	
	C18	2004/0192041	A1	Jeong et al.	9/30/2004	

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		Number	Kind Code ² (if known)			
	C19	6,828,244	B2	Chou	12/7/2004	
	C20	6,809,356	B2	Chou	10/26/2004	
	C21	2004/0197843	A1	Chou et al.	10/7/2004	
	C22	2004/0156108	A1	Chou et al.	8/12/2004	
	C23	2004/0137734	A1	Chou et al.	7/15/2004	
	C24	2004/0131718	A1	Chou et al.	7/8/2004	
	C25	2004/0118809	A1	Chou et al.	6/24/2004	
	C26	2004/0046288	A1	Chou	3/11/2004	
	C27	2003/0080472	A1	Chou	5/1/2003	
	C28	2003/0034329	A1	Chou	2/20/2003	
	C29	2002/0042027	A1	Chou et al.	4/11/2002	
	C30	6,580,172	B2	Mancini et al.	6/17/2003	
	C31	10/706,537		Sreenivasan et al.	11/12/2003	
	C32	10/858,566		Truskett et al.	6/1/2004	
	C33	11/005,742		McMackin et al.	12/7/2004	
	C34	11/006,363		McMackin et al.	12/7/2004	
	C35	4,512,848		Deckman et al.	4/23/1985	
	C36	6,517,995	B1	Jacobson et al.	2/11/2003	

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Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Sheet</td> <td style="width: 15%; text-align: center;">3</td> <td style="width: 15%; text-align: center;">of</td> <td style="width: 15%; text-align: center;">6</td> </tr> </table>				Sheet	3	of	6	<h3 style="text-align: center;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">APPLICATION NUMBER</td> <td>10/714,088</td> </tr> <tr> <td>FILING DATE</td> <td>11/14/2003</td> </tr> <tr> <td>FIRST NAMED INVENTOR</td> <td>McMackin et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>1762</td> </tr> <tr> <td>Examiner Name</td> <td>Padgett, Marianne</td> </tr> <tr> <td>Attorney Docket Number</td> <td>P69-11-03</td> </tr> </table>		APPLICATION NUMBER	10/714,088	FILING DATE	11/14/2003	FIRST NAMED INVENTOR	McMackin et al.	Group Art Unit	1762	Examiner Name	Padgett, Marianne	Attorney Docket Number	P69-11-03
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				Examiner Name	Padgett, Marianne
Sheet	4	of	6	Attorney Docket Number	P69-11-03

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

	C42	WO	2004/016406		Sreenivasan	2/26/2004		
	C43	WO	00/21689		Chou et al.	4/20/2000		
	C44	JP	02-92603		Kurikawa et al.	4/3/1990		
	C45	JP	02-24848		Kamio	1/26/1990		
	C46	WO	01/47003		Steiner et al.	6/28/2001		
	C47	WO	02/07199		Chou	1/24/2002		
	C48	WO	2004/114016		Chou et al.	12/29/2004		
	C49	WO	99/05724		Chou et al.	2/4/1999		
	C50	WO	03/010289		Chou et al.	2/6/2003		
	C51	WO	03/079416		Chou	9/25/2003		
	C52	WO	03/099536		Chou et al.	12/4/2003		
	C53	WO	2004/013693		Watts et al.	2/12/2004		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

	C54	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
	C55	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
	C56	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
	C57	Translation of Japanese Patent 02-92603	
	C58	Translation of Japanese Patent 02-24848	
	C59	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
	C60	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technolgy B 14(16), pp. 4129-4133, 11/1/1996	
	C61	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
	C62	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	C63	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
	C64	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
	C65	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

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